Listing of Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

- 1. (Previously Presented) A method, comprising encoding data values described by one or more multi-dimensional parameters, each of the multi-dimensional parameters having multiple constituent sub-parameters of more than one value, by mapping the multiple constituent sub-parameters of each of the multi-dimensional parameters of the data values to respective one-dimensional parameters having a single sub-parameter by which the multi-dimensional parameters will now be represented and creating a table of encoded data values in which the data values are represented by their respective encoded counterparts utilizing the one-dimensional parameters and in which redundant ones of the encoded data values share common table entries.
- 2. (Original) The method of claim 1, wherein the data values comprise pixel information.
- 3. (Original) The method of claim 1, wherein the data values comprise position information.
- 4. (Original) The method of claim 1, wherein redundant encoded data values share identical parameter values.
- 5. (Previously Presented) The method of claim 1, wherein redundant data values share parameter values which are similar to one another within a tolerance range.
- 6. (Original) The method of claim 1, further comprising transmitting the table of encoded data values to a receiver.

- 7. (Original) The method of claim 6, further comprising decoding the table of encoded data values at the receiver using the table of encoded data values and a set of reference information.
- 8. (Original) The method of claim 7, wherein the reference information is transmitted together with the table of encoded data values.
- 9. (Original) The method of claim 7, wherein the reference information is stored at the receiver prior to the transmission of the table of encoded data values.
- 10. (Original) The method of claim 7, wherein the reference information comprises a lookup table.
- 11. (Previously Presented) A method, comprising encoding data values having one or more multi-dimensional parameters, each of the multi-dimensional parameters having multiple constituent sub-parameters of more than one value, by combining a lossy encoding process in which the multiple constituent sub-parameters of each of the one or more multi-dimensional parameters of the data values are mapped to respective one-dimensional parameters having a single sub-parameter by which the multi-dimensional parameters will now be represented and stored in a table of encoded data values, with a lossless encoding process in which redundant ones of the encoded data values are arranged to share common entries in the table.
- 12. (Original) The method of claim 11, wherein the data values comprise pixel information.
- 13. (Original) The method of claim 11, wherein the data values comprise position information.
- 14. (Original) The method of claim 11, wherein the redundant ones of the encoded data values share identical parameter values.

- 15. (Previously Presented) The method of claim 11, wherein the redundant ones of the encoded data values share parameter values which are similar to one another within a tolerance range.
- 16. (Original) The method of claim 11, further comprising transmitting the table of encoded data values to a receiver.
- 17. (Original) The method of claim 16, further comprising decoding the table of encoded data values at the receiver using the table of encoded data values and a set of reference information.
- 18. (Original) The method of claim 17, wherein the reference information is transmitted together with the table of encoded data values.
- 19. (Original) The method of claim 17, wherein the reference information is stored at the receiver prior to the transmission of the table of encoded data values.
- 20. (Previously Presented) A set of computer readable instructions embodied on a computer-readable medium, which when executed by a computer processor cause the computer processor to execute a process comprising encoding data values described by one or more multi-dimensional parameters, each of the multi-dimensional parameters having multiple constituent sub-parameters of more than one value, by mapping the multiple constituent sub-parameters of each of the multi-dimensional parameters of the data values to respective one-dimensional parameters having a single sub-parameter by which the multi-dimensional parameters will now be represented and creating a table of encoded data values in which the data values are represented by their respective encoded counterparts utilizing the one-dimensional parameters and in which redundant ones of the encoded data values share common table entries.